

## MAC 2312.301 – Calculus and Analytic Geometry II, Spring 2012

Days & Times: MWF 10:30—11:50 in BA 110  
Professor: Jason Swanson (jswanson@math.ucf.edu)  
Office Hours: M 12:00—1:00 in the EXCEL Lab (CC2 223)  
W 9:30—10:30 in MAP 202E, or by appointment  
Course webpage: <http://math.swansonsite.com/12s2312>  
Textbook: Briggs/Cochran, *Calculus*

*Disclaimer:* All information in this syllabus is subject to change. Any changes will be given in writing.

*Course Description:* Chapters 7—11 and Appendix C of Briggs/Cochran, *Calculus*: inverse functions; exponential, logarithmic, and inverse trigonometric functions and their derivatives; hyperbolic functions; techniques of integration; infinite sequences and series, including Taylor series; parametric equations and polar coordinates; calculus in polar coordinates. Successful completion of MAC2311 Calculus I is a required prerequisite for this course.

*Recitation:* Tuesdays 4:30-5:20 PM in BA 110, you will attend a weekly problem solving session. The recitations will be led by your EXCEL graduate mentor, Christopher Huff. Weekly quizzes will be administered during recitation.

*Homework:* Homework assignments will appear regularly on MyMathLab. Students are responsible for keeping themselves informed about homework assignments by checking MyMathLab on a daily basis.

*Tests and final exam:* There will be three in-class tests and a comprehensive final exam. The tests are **tentatively** scheduled for Feb 1, Feb 24, and Mar 30. These dates are only approximate and may change. Official test dates will be announced in class. The final exam is currently scheduled for Apr 30, 10:00-12:50. Calculators are not allowed on quizzes and exams.

*Grading:* Each test is worth 15% of the overall grade, and the final exam is worth 20%. The final exam, in addition to counting as the final, can be used to replace your lowest (nonzero) test grade. Your homework and quiz averages will each count for 15% of your grade. Your worst quiz will be dropped. The final 5% of the overall grade will be your EXCEL participation grade. (More details about this are at the end of the syllabus.)

The required threshold for an A is 90%; for a B, 80%, for a C, 70%, and for a D, 60%. Below 60% is an F. If necessary, however, these thresholds will be lowered to adjust for the difficulty level of the tests and/or final exam.

*Make-Up Policy:* There are no make-up tests. In the case of documented absences due to family emergencies, illness or official university functions, the final exam will be used as a make-up test. In this case, the final exam may not also be used to replace your lowest test grade. It is your responsibility to contact me prior to a test if you are unable to attend for any reason.

*Blue books:* A “blue book” (available from the UCF Bookstore) will be required for each test. On test day, do not enter the classroom until Prof. Swanson arrives. Any student who is in the

classroom when Prof. Swanson arrives will be asked to leave the room and wait outside. Upon Prof. Swanson's arrival, the students will be directed to enter the classroom, one at a time.

As students enter the classroom, they must have their blue book in their hand. It should be an 11" x 8.5", 16 page, UCF blue book. It should be completely blank, both inside and out. Any student not meeting these requirements will not be allowed to enter the classroom. As they enter the classroom, each student must exchange his or her blue book for a new blue book which will be provided to them.

Students must immediately take a seat, and keep all their belongings put away. Desks must be empty, except for the blue book and something to write with. (In other words, you may not arrive early and review your notes or the textbook in the classroom. If you wish to do some last minute reviewing, you must do so outside the classroom before you enter.)

*Attendance:* Students are expected to attend each lecture, arrive in class on time, and stay the entire class period. Mobile phones and other non-approved electronic devices must be turned off. If you must miss a class, it is your responsibility to find out all information from the class you missed, including material covered and any other announcements made.

**Special EXCEL notes:** This is an EXCEL section of Calculus II (MAC 2312). The following are some EXCEL specific requirements:

- You should also be enrolled in ISC 2216 (M 4:30-5:45pm) which is the applications of calculus II course.
- You should also attend the recitation on Tuesdays at 4:30pm in BA 110. Quizzes will be given at the recitation.
- Your assigned EXCEL Graduate mentor is Christopher Huff. Christopher attends the class and will monitor your progress throughout the course. If he contacts you please respond immediately as he is trying to help you.
- You are required to log 4 hours per week in the EXCEL lab until the first test. After the first test Christopher and I together will decide on a week by week basis throughout the semester how many hours you need to log in the EXCEL lab. Remember that my office hours and peer tutoring in the Nike center in the evening also count towards your minimum hours.

**EXCEL participation points:** Each week that you meet your required hours in the EXCEL lab, you will receive one EXCEL participation point. Under certain circumstances, you may be asked to meet other EXCEL requirements, such as writing an action plan if your grades indicate that you are falling behind on the course material. In such cases, Christopher and I will discuss with you how many EXCEL participation points are at stake for the required activity. Your final EXCEL participation grade will simply be the ratio of earned points to total possible points, and will constitute 5% of your overall grade.